

ARMY MATERIEL COMMAND



Tactical Wheeled Vehicle Conference

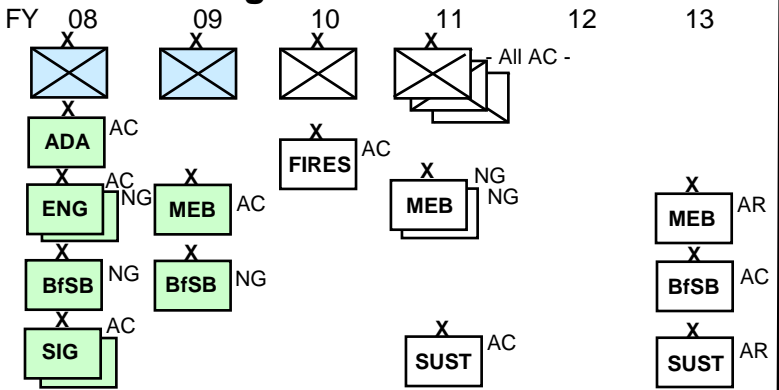


LTG James Pillsbury



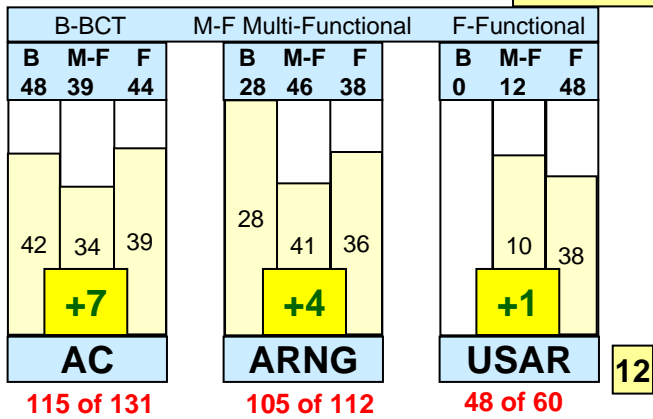
FY 09 Operational Graphics

Growth: 21 Brigades

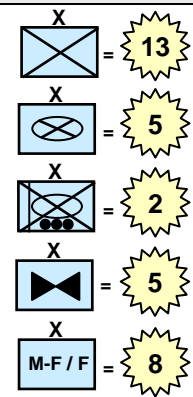


Modular Conversion - EDATES

268/303



Unit reset



BDE/DIV (FY09)

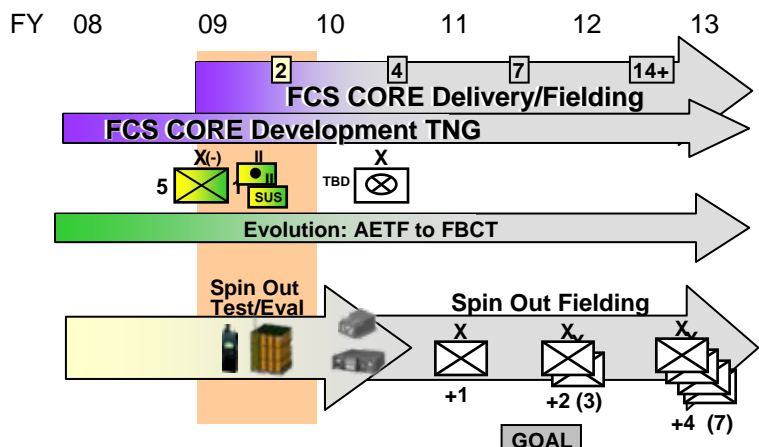


APS



M-F / F BCT Brigades Total
20 + 13 = 33

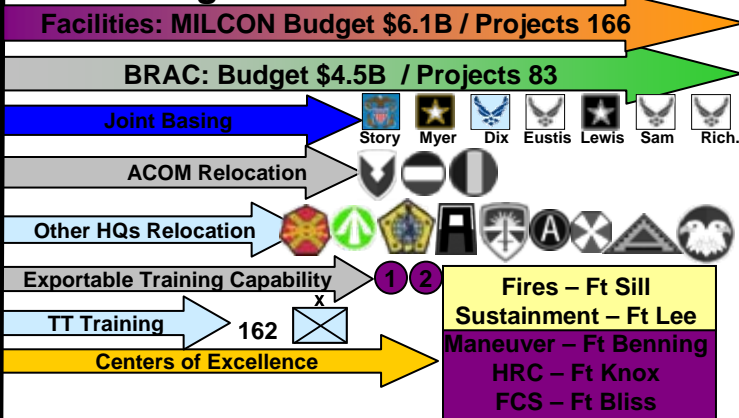
FCS: • CMETL doctrine, organization, & training development
• AETF continues to build capability: IBCT, Fires, & SUS
• Test: Spin Out, Rifleman's Radio, & NLOS-LS



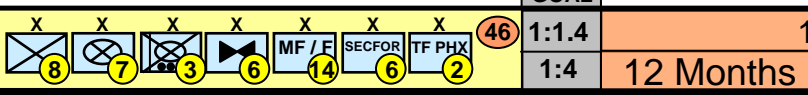
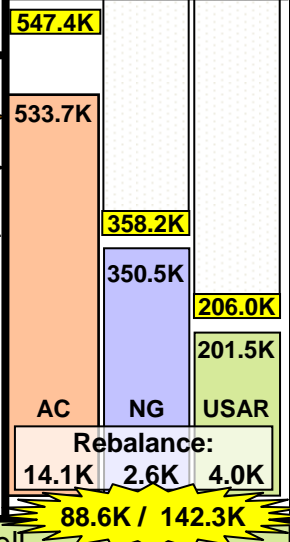
ASCC



Generating Force



Personnel



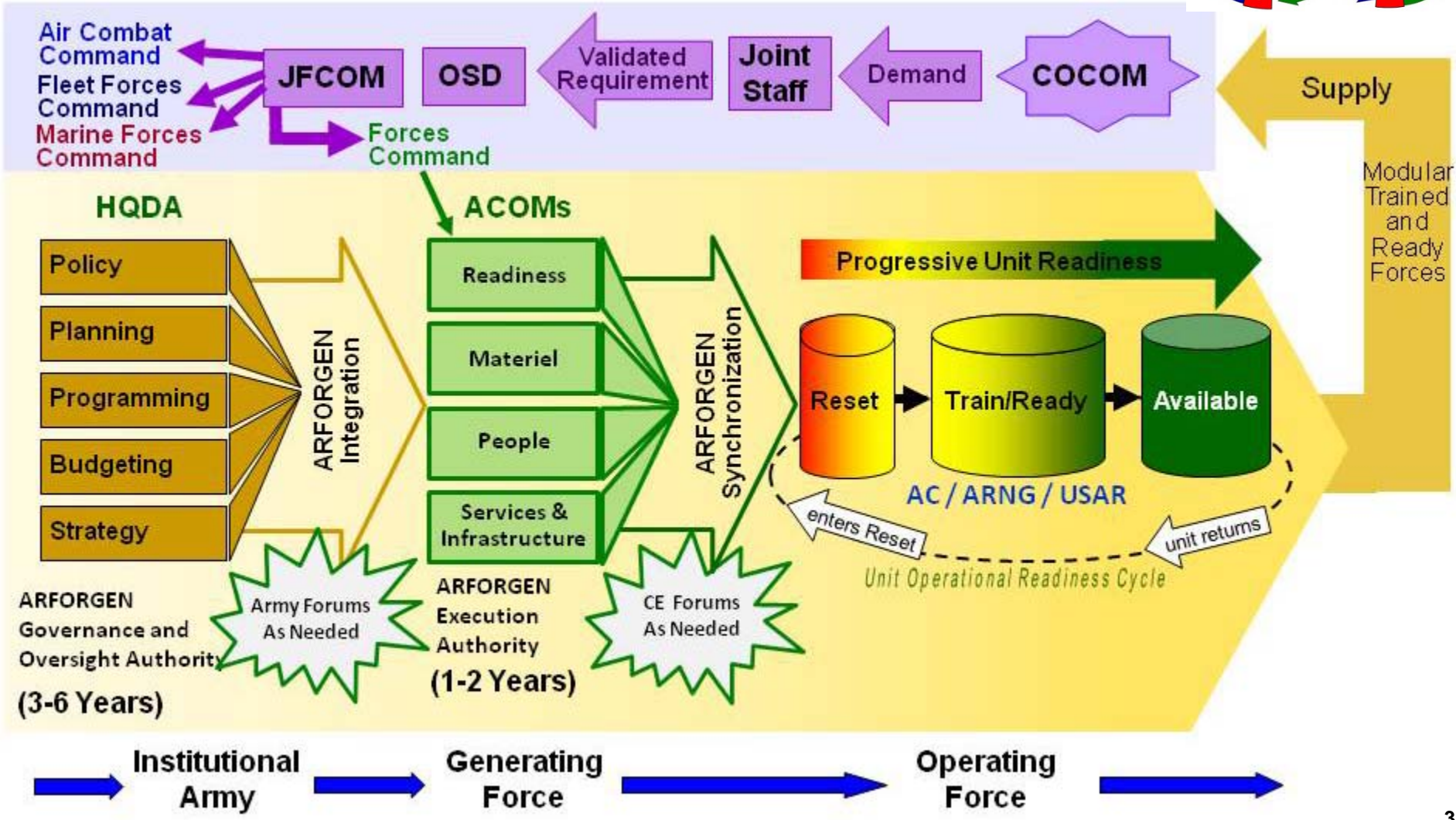
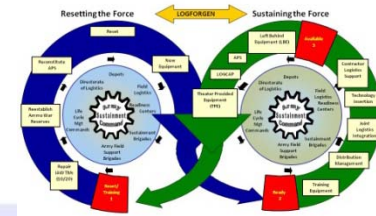
12 Months BOG

12 Months MOB

16.8 Months Dwell

48 Months Dwell

ARFORGEN Tomorrow – The Model





Setting the Force

What We've Done . . . What We're Doing

ARMY PLAN
The Army will undertake a disciplined, orderly reconstitution to restore combat power.

96,000+ Small Arms FY08**

Small Arms
(201,570 Overhauled / 421,564 SARET)

2,000+ Tracked* FY08

4,027 Tracks
39,658 Wheels*
(Includes Reset & Recap)*

12,000+ Wheeled FY08

2,905* Aircraft Scheduled
2,473* Completed

410+ Aircraft FY08

3,200+ Generators FY08

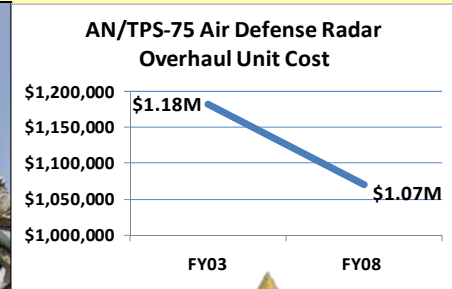
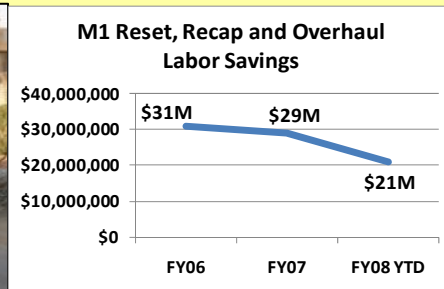
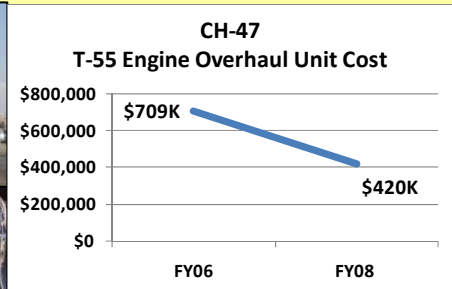
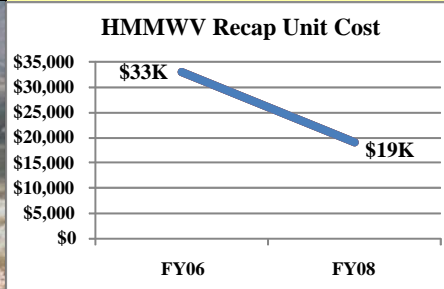
CEERT
NVDs 44,201;
SINCGARS 34,079
Overhaul Totals
19,256 Generators
24,372 Commo/Electric
105,414 COMSEC

11,000+ Missiles FY08

12,879 Missile Systems
15,032 Missile Rounds Reset
13.3K Short Tons Ammunition Processed for Reissue in SWA

FY08 Projections (2/15/08)

Leaning Our Business Processes



Malcolm Baldrige Quality Award
23 Shingo Awards

Master Black Belt 36
 Black Belt 656
 Green Belt 3,497

Corporate America
Seeking Best Business Practices

LSS Benefits
 FY08 \$310M
 FY07 \$305M
 FY06 \$247M
 FY05 \$110M

Our Performance Now is Equal or Better than Industry Partners

Business Transformation

Lower Cost ...Higher Quality...Faster Delivery!

2008 SHINGO PRIZE RECIPIENTS

Silver

- Red River Army Depot Heavy Expanded Mobility Tactical Truck (HEMTT)



Bronze

- Tobyhanna Army Depot AN/TYQ-23 Tactical Air Operations Module
- Red River Army Depot Trailers
- Letterkenny Army Depot Biological Integrated Detection System (BIDS)
- Red River Army Depot Patriot Missile
- Tobyhanna Army Depot AN/ASM-189 Electronic Maintenance Shop Van



LSS Financial Benefits

FY08 \$310M
 FY07 \$305M
 FY06 \$247M
 FY05 \$110M

Improvement Based on Industry Standards



Master Black Belts 36
 Black Belts 656
 Green Belts 3497

ISO Certifications

- ISO 9001:2000 Quality Management System (23 sites)
- ISO 14001:2000 Environmental Management System (9 sites)
- ISO 9001:2000 + AS9100B Aviation Maintenance System (1 site)
- AS 9110 2003-01 International Aerospace Quality Standards (1 site)
- OHSAS 18001 Occupational Health and Safety Administration System (1 site)



Safety Voluntary Protection Program (VPP) (2 sites)

2007 Baldrige Quality Award
 US Army Armament Research, Development & Engineering Center



Shingo Prize Recipients - Public Sector :

2005 - AMC 1	Total 5
2006 - AMC 4	Total 9
2007 - AMC 12	Total 17
2008 - AMC 6	Total 11



Condition-Based Maintenance (CBM)

- **Prognostic, not diagnostic**
 - **Fix only what needs to be fixed before it fails**
 - **Continuously refine from what we learn to be more predictive, more accurate**
- **Successes in aviation and missile fleets**
 - **Increased aircraft availability, flight hours**
 - **Reduced sustainment costs (60% for Hellfire)**
- **Way ahead**
 - **Ground combat systems**
 - **Wheeled vehicle fleets**
 - **C4ISR systems**

AMSAA Tactical Wheeled Vehicle

CBM Effort

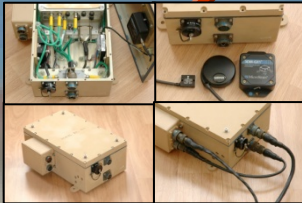
Records Conditions essential to prognostic development

Capable of Identifying Health/Impending Failures

Unit receives monthly feedback reports compiled from recorded conditions and maintenance

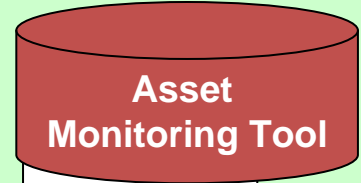
Data collected from instrumentation package & sent to AMSAA for analysis & feedback

Records Fuel Consumption, speed profiles, vibrations, & other parameters by bumper number



AMSAA

- Warfighter
- PMs
- TARDEC
- ARL
- ATEC
- CASCOM
- Academia
- etc.



Usage

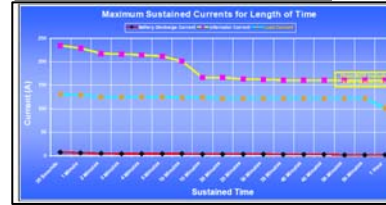
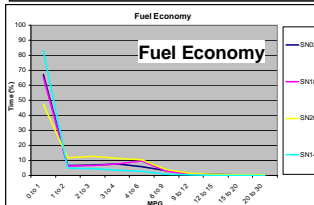
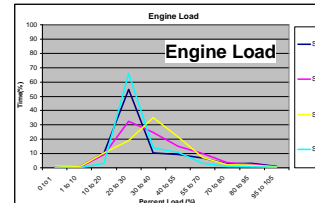
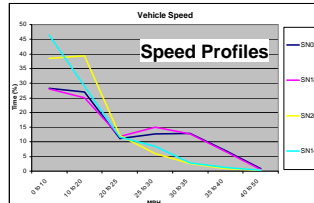
Maintenance

Conditions

Algorithm Development

As of Dec 08, AMSAA CBM Instrumentation Packages in OIF/OEF, CONUS, Alaska, & Korea

Vehicle Type	Quantity
M1151 HMMWV	3
IMG MRAP	3
CAIMAN MRAP	10
Buffalo MRAP	2
RG-33 MRAP	3
RG-31 MRAP	4
M916A3	6
M915	3
M1070A1 HETs	3
M984A2 HEMTTs	4
M1075 HEMTT PLS	3
LMTV/MTV	9
Strykers	9





Condition-Based Maintenance Plus (CBM+)



PREVENTIVE

- Reactive Maintenance
- Time Based Inspection/Overhaul

INDICATORS

- Sensor Installation
- Knowledge Development
- Fault Diagnosis
- Remaining Component Useful Life
- Inspection Targeting

DIAGNOSTICS

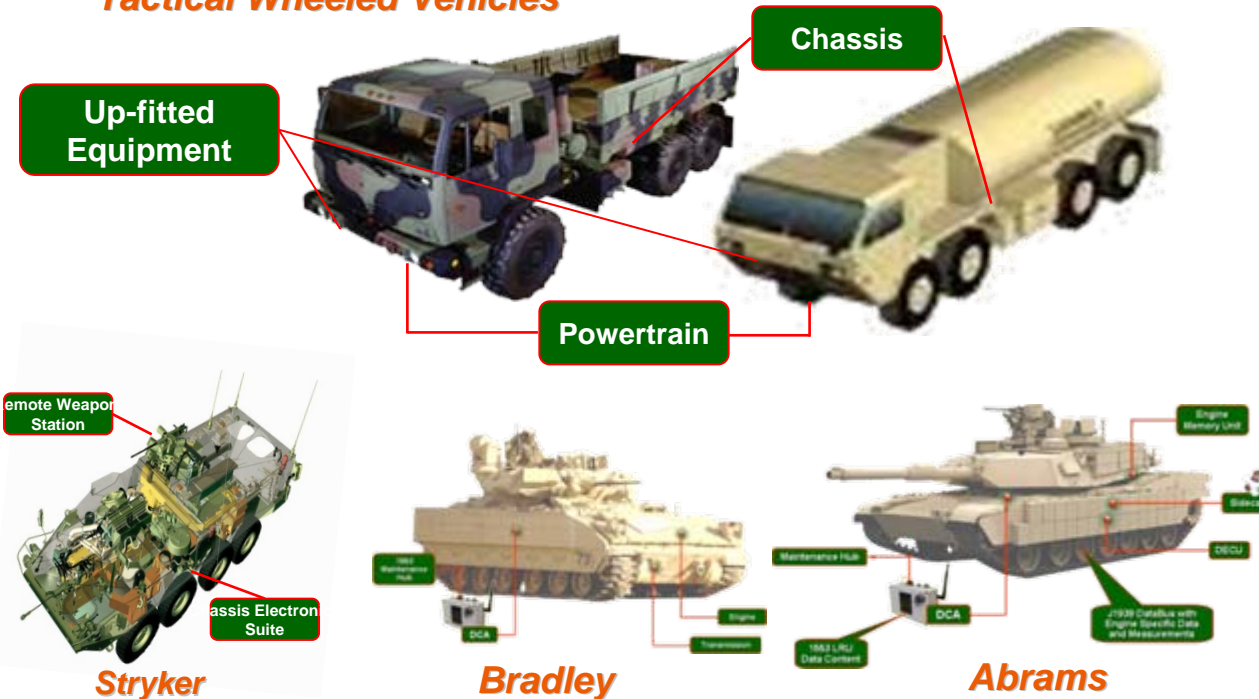
PROGNOSTICS

ON-CONDITION

- Proactive Maintenance
- Proactive Supply transactions

Maintenance capabilities derived from near real-time assessment and analysis of data from embedded sensors and platform's history

Tactical Wheeled Vehicles



CBM+ Goals:

- Increase Platform Availability and Readiness
- Reduce Operations & Support (O&S) Costs

Key CBM+ Enablers

- Health Management
 - ✓ Embedded Sensors
 - ✓ Diagnostics
 - ✓ Prognostics
- Maintenance Aids (MSD, PMA)
- IETMs
- Digital Logbooks
- Data Storage
- Data Networks



Adopting an Enterprise Approach

- What We Are:
 - ✓ Increasing collaboration at all levels of AMC and ASA(ALT) incorporating lessons learned from four years of operating as LCMCs
 - ✓ Exploring all ways to improve effectiveness and efficiency to:
 - Reduce costs wherever possible
 - Improve support to the Warfighter
 - Grow the Army during continuous Reset
 - ✓ Improve reliability of systems to reduce life cycle costs
 - ✓ Improve transparency
 - ✓ Provide the Army's Senior Leadership with the right information in a timely manner to make the best decisions at the appropriate level
- We Are Not:
 - ✓ Changing the command structure
 - ✓ Modifying duties and responsibilities assigned by law or regulation

SA/CSA Imperatives

Sustain
Prepare
RESET
Transform



2011 - A Balanced Force

The Preeminent Global Materiel Enterprise Manager
VISION

ACQUIRE TEST
RESEARCH & DEVELOP
EQUIP SUPPLY
DISTRIBUTE SUSTAIN
MAINTAIN
DISPOSE



Institutionalized
RESET
RESET 100%
BCTs

Completed BRAC

A Responsive
Adaptive
Acquisition
Process

Right-sized
Depots MCA
Arsenals CIP
Ammo

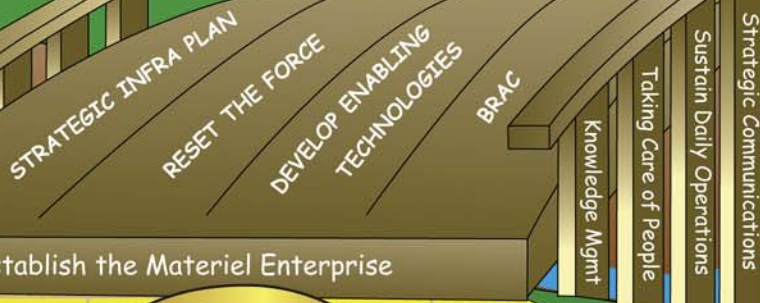


Become the
Materiel Enterprise

Modernize and
Equip the Force

Challenges

- Persistent Conflict
- Aged Infrastructure



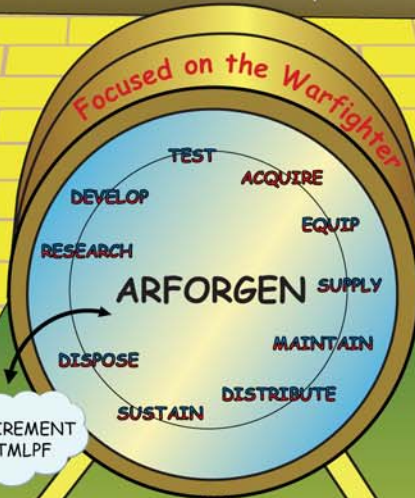
Opportunities

- Optimize Resources
- Governance
- BRAC
- New Administration

CURRENT



AMC
LCMCs
RDECOM/USASAC/ACC
SDDC
CMA/ACWA
ASC
DEPOTS/ARSENALS
/AMMO PLANTS



ASA(ALT)
ATEC
PEOs/PMS
INDUSTRY

The Army Enterprise

- ✓ Align functions and fiscal authorities
- ✓ Improve ARFORGEN
- ✓ Incentivize good stewardship
- ✓ Responsive and realistic requirements process



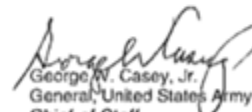
DEPARTMENT OF THE ARMY
WASHINGTON DC 20310-0200

15 JAN 2009

MEMORANDUM FOR SEE DISTRIBUTION

SUBJECT: Institutional Adaptation and Army Transformation

1. The Army has made a deliberate effort, over time, to improve how it functions as an organization. Secretary White and General Shinseki provided the intellectual framework for the 21st Century Army and initiated our transformation from a Cold War Army to a campaign quality expeditionary force, capable of meeting the needs of the combatant commanders across the spectrum of conflict. Secretary Harvey and General Schoomaker led the next phase, focusing on modularity and organizational change. We will continue our transformation by adapting our institutions to support an Army on a rotational cycle in an era of persistent conflict. We will not cement the hard-won changes of the past decade until this occurs.
2. There are three major elements to Institutional Adaptation. First, the Army will improve how we execute ARFORGEN by revising the model for institutional support of the ARFORGEN process. Second, the Army will adopt an enterprise approach, by developing an Army-wide strategic management system that incorporates a refined governance process supported by an improved assessment architecture. Third, the Army will reform its requirements and resource processes by establishing a more responsive and realistic requirements process and inculcating a cost culture that incentivizes good stewardship. The confluence of these three efforts is designed to improve both the effectiveness and efficiency of the Army and align our institutions to support the Army of the 21st Century and preserve our All Volunteer Force.
3. The ability to manage as an enterprise is critical to restoring balance. The Army will establish the Army Enterprise Board (AEB), with representation from the Secretariat and Army Commands, that meets routinely. The AEB will review strategic Army issues and recommend solutions to the Secretary of the Army. The board will supervise our functional alignment into core enterprises in accordance with Title 10, General Orders No. 3, and Army Regulations on a schedule that will not impact current operations. The AEB Charter and the implementing instructions will be developed and published over the course of this year with a goal of IOC of March 2009 and FOC of August 2009.
4. Institutional Adaptation is the final and essential element of our transformation from a Cold War force to an agile, disciplined warrior team that is dominant across the spectrum of 21st Century conflict. We need your full support.


George W. Casey, Jr.
General, United States Army
Chief of Staff


Pete Geren
Secretary of the Army

Opportunities and Challenges

- Era of persistent conflict is a fact of life
- Materiel Enterprise approach gaining momentum
 - AMC taking the lead on CSA's imperatives – RESET
 - Robust collaboration with our partners
- New administration: uncertainty of defense budget levels going forward
 - Support the Warfighter through good stewardship of every dollar
- Sustain our Industrial Base
 - Key role in revitalizing aging infrastructure
 - Retain and advance workforce skill sets and productivity

